

RECEIVED

JUN 25 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/777,921DATE: 06/01/2001  
TIME: 12:54:47Input Set : A:\Seqlist.txt  
Output Set: C:\CRF3\06012001\I777921.raw

ENTERED

4 <110> APPLICANT: MERKULOV et al  
6 <120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,  
7 NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
8 AND USES THEREOF  
10 <130> FILE REFERENCE: CL001103  
12 <140> CURRENT APPLICATION NUMBER: 09/777,921  
C--> 13 <141> CURRENT FILING DATE: 2001-07-02  
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27 cctgcgcctc tgggaccatg ttgcgtggc tgcgggactt cgcgtgccc accgcggcc 180  
28 gccaggacgc ggagcagccg acgcgtacg agacccttt ccaggcactg gaccgcaatg 240  
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31 tgatatttga agaattttatg aagtacctta aagaccatga gaagaaaatg aaattggcat 420  
32 ttaagagttt agacaaaaat aatgatggaa aaatttggagc ttcaaaaaat gtccagtctc 480  
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34 atgttgatgg gacaatgaca gtggacttgg atgaatggag agactacttc ttattttatc 600  
35 ctgttacaga cattgaggaa attatccgtt tctggaaaca ttctacagga attgacatag 660  
36 gggatagctt aactattcca gatgaattca cggaaagacga aaaaaaatcc ggacaatgg 720  
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38 tggaccgtct gaaaatcatg atgcaggttc acggttcaaa atcagacaaa atgaacatat 840  
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40 gtacaaacgt catcaaattt gtcctgaga cagctttaa attctggca tatgaacagt 960  
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52 ggagtgactt tttctcctcg aattgaaaca agtctatggc aaaagaagct gcattttttt 1680  
53 cacaatggg aagacggtaa caatggtcac ttcaaaacttt tggctaaat tataatgtaca 1740  
54 cagaaatgtt caaaatcata gtttaatgt gtttgaaaa ggccacacaa ttataacttta 1800  
55 tctttctta ataatcctgc aaatctctgc cctgaatccg aaatctggaa atgtactggc 1860  
56 ttgaacaaaa tttgtttgtt gtgttagagt tataaatcat taatctttat ttcgggtgg 1920  
57 ttacgtttat gccagttcct ttatattaa atttcttgc ttatatattt tgaatgtctt 1980

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Input Set : A:\Seqlist.txt  
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58 tatagatttc tttaaatttc cttatagaac cattaataga aaatcattac atttaaaata 2040  
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60 tgaatacggaa tgaacacagt ggtggattt ctgaaggaa gtatgaaat tatatttt 2160  
61 tcagtggcattt ctttccattt ttaccactgt accattattt gttccctgga gttatacact 2220  
62 aattttcagt atattactgt taaattacca acacaaggca atttatttga aagattccgt 2280  
63 ttatcctgccc attgcttga aaagcagcag gaaacgaaat ttttgactt gtatcagctt 2340  
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65 ttttagtcagg aagacttctt gggaccattt ttagtaacct gaaatttctt ttttaattgc 2460  
66 atgaagtggaa ttgatcatga gcaagtgtatg ggctttattt ctccctcaact ggtgaatatc 2520  
67 ctttgaactt gctgttgca atatgggcag ccacaaaggaa ggagagatgc ctattaaatc 2580  
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80 20 25 30  
81 Arg Asn Gly Asp Gly Val Val Asp Ile Gly Glu Leu Gln Glu Gly Leu  
82 35 40 45  
83 Arg Asn Leu Gly Ile Pro Leu Gly Gln Asp Ala Glu Glu Lys Ile Phe  
84 50 55 60  
85 Thr Thr Gly Asp Val Asn Lys Asp Gly Lys Leu Asp Phe Glu Glu Phe  
86 65 70 75 80  
87 Met Lys Tyr Leu Lys Asp His Glu Lys Lys Met Lys Leu Ala Phe Lys  
88 85 90 95  
89 Ser Leu Asp Lys Asn Asn Asp Gly Lys Ile Glu Ala Ser Glu Ile Val  
90 100 105 110  
91 Gln Ser Leu Gln Thr Leu Gly Leu Thr Ile Ser Glu Gln Gln Ala Glu  
92 115 120 125  
93 Leu Ile Leu Gln Ser Ile Asp Val Asp Gly Thr Met Thr Val Asp Trp  
94 130 135 140  
95 Asn Glu Trp Arg Asp Tyr Phe Leu Phe Asn Pro Val Thr Asp Ile Glu  
96 145 150 155 160  
97 Glu Ile Ile Arg Phe Trp Lys His Ser Thr Gly Ile Asp Ile Gly Asp  
98 165 170 175  
99 Ser Leu Thr Ile Pro Asp Glu Phe Thr Glu Asp Glu Lys Lys Ser Gly  
100 180 185 190  
101 Gln Trp Trp Arg Gln Leu Leu Ala Gly Gly Ile Ala Gly Ala Val Ser  
102 195 200 205  
103 Arg Thr Ser Thr Ala Pro Leu Asp Arg Leu Lys Ile Met Met Gln Val  
104 210 215 220  
105 His Gly Ser Lys Ser Asp Lys Met Asn Ile Phe Gly Gly Phe Arg Gln  
106 225 230 235 240  
107 Met Val Lys Glu Gly Gly Ile Arg Ser Leu Trp Arg Gly Asn Gly Thr  
108 245 250 255

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109 Asn Val Ile Lys Ile Ala Pro Glu Thr Ala Val Lys Phe Trp Ala Tyr  
110 260 265 270  
111 Glu Gln Tyr Lys Lys Leu Leu Thr Glu Glu Gly Gln Lys Ile Gly Thr  
112 275 280 285  
113 Phe Glu Arg Phe Ile Ser Gly Ser Met Ala Gly Ala Thr Ala Gln Thr  
114 290 295 300  
115 Phe Ile Tyr Pro Met Glu Val Met Lys Thr Arg Leu Ala Val Gly Lys  
116 305 310 315 320  
117 Thr Gly Gln Tyr Ser Gly Ile Tyr Asp Cys Ala Lys Lys Ile Leu Lys  
118 325 330 335  
119 His Glu Gly Leu Gly Ala Phe Tyr Lys Gly Tyr Val Pro Asn Leu Leu  
120 340 345 350  
121 Gly Ile Ile Pro Tyr Ala Gly Ile Asp Leu Ala Val Tyr Glu Leu Leu  
122 355 360 365  
123 Lys Ser Tyr Trp Leu Asp Asn Phe Ala Lys Asp Ser Val Asn Pro Gly  
124 370 375 380  
125 Val Met Val Leu Leu Gly Cys Gly Ala Leu Ser Ser Thr Cys Gly Gln  
126 385 390 395 400  
127 Leu Ala Ser Tyr Pro Leu Ala Leu Val Arg Thr Arg Met Gln Ala Gln  
128 405 410 415  
129 Ala Met Leu Glu Gly Ser Pro Gln Leu Asn Met Val Gly Leu Phe Arg  
130 420 425 430  
131 Arg Ile Ile Ser Lys Glu Gly Ile Pro Gly Leu Tyr Arg Gly Ile Thr  
132 435 440 445  
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152 caattccctt cccgctagtc acaactggta actactgatt tgtttctgt ccctatagtt 180  
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164 tcatacatat cttaaacata caaaatgata tgaggagagg taagttcagg gtctgagttc 900  
165 ctggctgttg ttggaactga tttctgtgt tgattcaga agatgtgaga cacccctaatt 960  
166 tacaagtaca gaggtatctt ctttctgca aacagcagta caacaatagt tcctcttacg 1020  
167 cagctgtgaa tgaacaggat tattacaatt aatgatatct catttgattt ggcctttaga 1080  
168 gaattaagac ctttcacacc taatatacaa ctttgggttg aaggcagata tttatattct 1140  
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## VERIFICATION SUMMARY

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Input Set : A:\Seqlist.txt  
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L:549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:1017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3